

Neurodegenerative disease mortality in former professional soccer players

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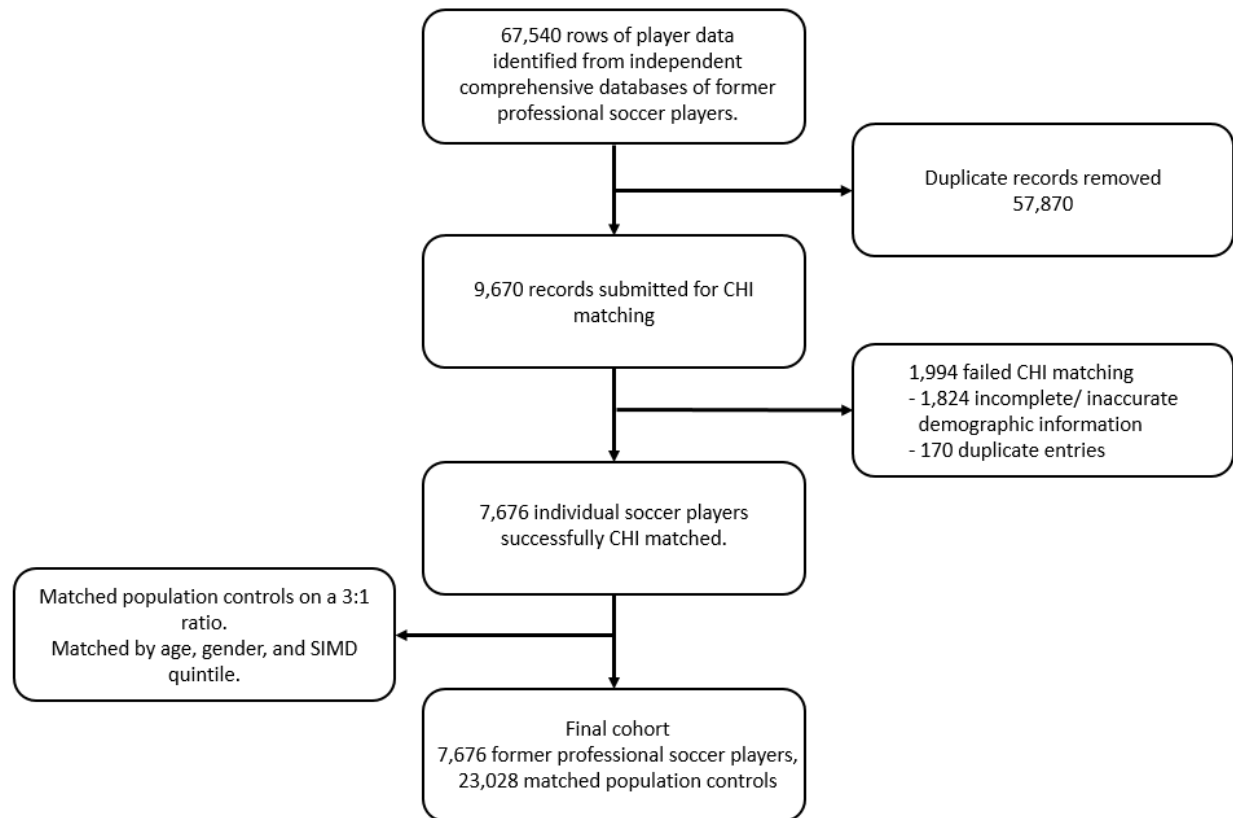


Figure S1: Flow chart of data cleansing, case identification and records matching processes towards identifying final former professional soccer and matched population control cohorts.

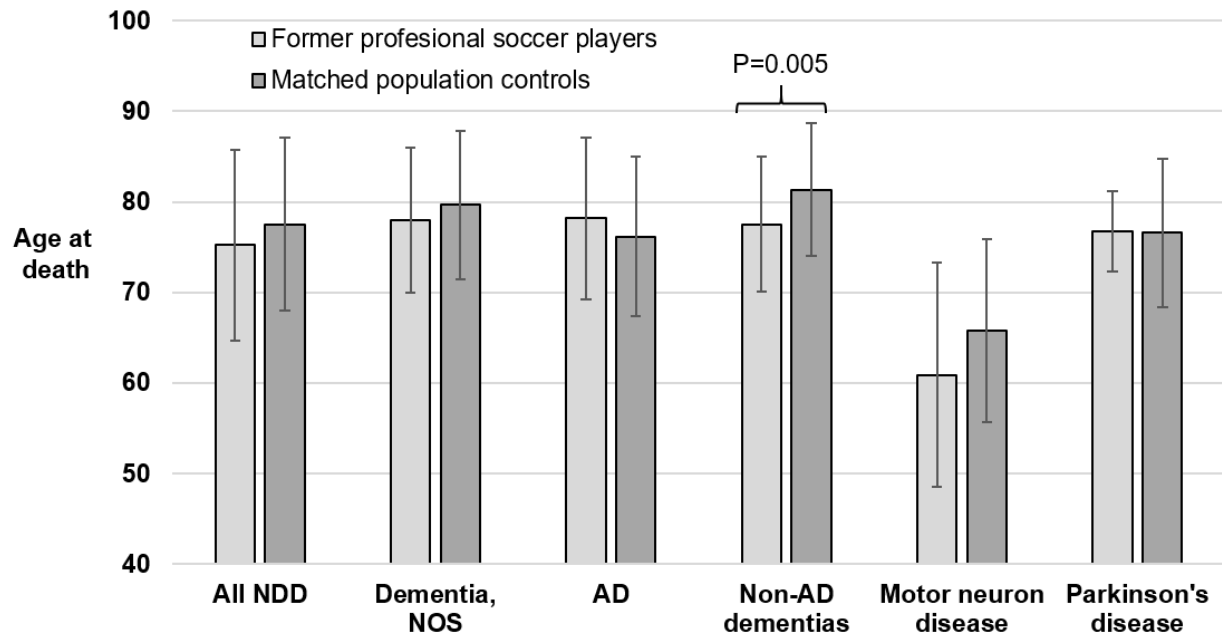


Figure S2: Age at death with varying neurodegenerative disease subtypes. Age at death with non-Alzheimer's dementias (Non-AD dementias) was lower in former soccer players than matched population controls (77.5 ± 7.5 years versus 81.3 ± 7.3 years respectively; $P=0.005$). Otherwise, there was no difference in age at death for all other neurodegenerative subtypes assessed. NDD, neurodegenerative disease; NOS, not otherwise specified; AD, Alzheimer's disease.

Table S1: Outcomes assessed and associated ICD-9 and -10 codes

	ICD-9	ICD-10
Neurodegenerative disease		
All neurodegenerative disease	290.0 to .4; 294.1 & .2; 331.0 to .2 & .6 to .9; 332; 335.2	F01-F03; G12.2; G20; G21; G23.1 to .3, .8 & .9; G30; G31
Dementia, not otherwise specified	290.0 to .4; 294.1 & .2; 331.0; 331.1, .2 & .6 to .9	F01-F03; G23.1 to .3; G30; G31
Alzheimer's disease	331.0	G30
Non-Alzheimer's dementias	290.0 to .4; 294.1 & .2; 331.1, .2 & .6 to .9	F01-F03; G23.1- .3; G31
Motor neuron disease/ amyotrophic lateral sclerosis	335.2	G12.2
Parkinson's disease	332	G20; G21; G23.8 & .9
Circulatory system		
All	390 to 459	I00 to I99
Ischemic heart disease	410 to 414	I20 to I25
Stroke/cerebrovascular	430 to 438	I60 to I69
Respiratory		
All	460 to 519	J00 to J99
Cancer		
All	140 to 239	C00 to D49
Lung	162 to 163	C33 to C34

Table S2: Drugs listed in British National Formulary Section 4.11

British National Formulary Section 4.11: Dementia	Donepezil hydrochloride
	Galantamine
	Idobenone
	Memantine Hydrochloride
	Rivastigmine